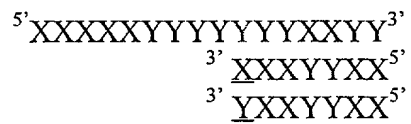
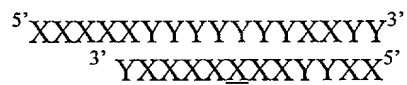


Template
 Primer1
 Primer2
 mixed dNTP

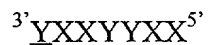


\Downarrow (primer extension)

Primer1's products:



Primer2, no products:



\Downarrow (separation)

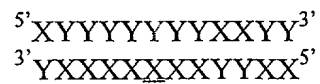


Fig. 1

Template
 Primer1
 Primer2
 mixed dNTP (including labeled base X)

5'XXXXXXXXXXXXXXXXXXXX3'
 3'XXXXXXXX5'
 3'YXXXXXX5'

↓↓ (primer extension)

Primer1's products:

5'XXXXXXXXXXXXXXXXXXXX3'
 3'YYXXXXXXXXXXXX5'

Primer2, no extension products:

3'YXXXXXX5'

mixed dNTP (including labeled base X)

↓↓ (products separation)

5'XXXXXXXXXXXXXXXXXXXX3'
 3'YYXXXXXXXXXXXX5'

Fig. 2

| | | |
|---|---|---|
| P | C | T |
| ● | | ● |

Fig 3.